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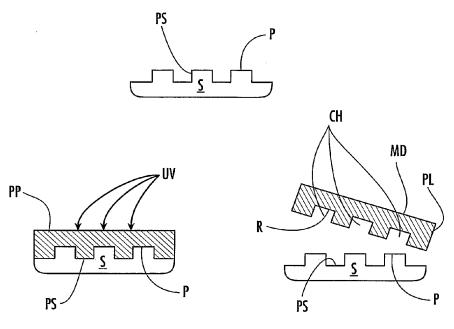
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(54) Title: PHOTOCURABLE PERFLUOROPOLYETHERS FOR USE AS NOVEL MATERIALS IN MICROFLUIDIC DE-VICES



(57) Abstract: A solvent-resistant microfluidio device (MD) is fabricated from a functionalized, photo-curable perfluoropolyether (PFPE). In one embodiment, a polymeric precursor (PP), comprising PFPE, is disposed on a patterned surface (PS) of a substrate (S), having raised protrusions (P). Ultraviolet light (UV) is applied to yield a patterned layer (PL) of photo-cured PFPE having recesses (R) comprising at least one channel (CH). Patterned layer (PL) is removed from patterned surface (PS) of substrate (S) to yield microfluidic device (MD).



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST				
C. DOCT	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.	
A	US 4,567,073 A (LARSON et al) 28 January 1986 (2	28.01.1986), entire document.	1-171	
A	US 6,403,539 B1 (MARCHIONNI et al) 11 June 2002 (11.06.2002), entire document.		. 1-171	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
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